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FLEXIBLE ARCHITECTURE FOR IMAGE PROCESSINGABSTRACT OF THE DISCLOSURE

5 A system and a method for processing image data in a digital image
device such as a digital camera. The present invention includes a bus, a
central processing unit coupled to the bus, an image processing subsystem
coupled to the central processing unit for processing the image data using a
particular processing mode, a memory unit coupled to the bus, and a data
storage element for storing the image data after image processing. The
10 memory unit has stored therein an operating system for managing the
image processing subsystem, and the memory unit also has a data
structure for managing the image data for the image processing subsystem
during image processing. The data structure provides an interface
between the operating system and the image processing subsystem, such
15 that the operating system is independent of the processing mode used by the
image processing subsystem.